

## ABSTRACT

An apparatus and method are shown for receiving multi-path signals. A rake receiver is used to receive multi-path signals. The rake receiver contains multiple fingers that act as correlators, where each finger is synchronized to one of the multi-path signals.

5 Each finger of the rake receiver includes a variable delay element. The delay of the variable delay element in each finger may be determined by calculating the amount of time for a signal to travel from an antenna to the receiver, due to the path traveled, and setting the delay based on the measured travel time. The delay of the variable delay element in each finger may also be determined by scanning through a range of delays of  
10 the variable delay element and measuring an output signal level of the finger, the variable delay element then being set to the delay corresponding to the highest measured output signal level.